



U.S. DEPARTMENT OF
ENERGY

Office of
Science

DOE Office of Science

Update and FY 2018 Budget Request to Congress

Presented to the

Biological and Environmental Research
Advisory Committee

by

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Outline

- Message from DOE leadership
- Appointee status
- FY 2018 budget



Message from Secretary Perry

- The FY18 budget request attempts to refocus and refine our mission on several critical fronts that directly affect the safety and security of the American public.
- The \$28 billion FY 2018 budget advances the DOE mission in key areas through significant investments to:
 - Modernize the country's nuclear weapons arsenal
 - Achieve exascale computing
 - Advance the Nation's nuclear waste management program
 - Protect our national electric grid from cyberattacks
 - Shift the Department's focus to early-stage research and development at our national laboratories to more efficiently and cost effectively advance American dominance in scientific and energy research



Message from the DOE Office of Science

- Our job is to deliver the best science we can with the resources we are given by the President and Congress
- There will be some challenges for FY 2018, and we are awaiting final passage of the House-Senate conference
- Once the final appropriation is passed, we will be working out the FY 2018 execution details
- In the meantime, we need to remain clear about our priorities:
 - Deliver the best science we can with the resources we have when Congress votes and the President finally signs an FY 2018 budget
 - Continue tradition of excellence in SC-funded university-based research, lab-based research, and operations of scientific facilities



Appointee Status

Deputy Secretary of Energy Nominee Dan Brouillette

- Nomination announced April 3, 2017
- Senate Hearing May 25, 2017
- Senate Confirmation on August 3, 2017
- Sworn in as Deputy Secretary, August 7, 2017



Under Secretary for Science Nominee Paul Dabbar

- Nomination announced July 12, 2017
- Senate Hearing July 20, 2016
- Senate Confirmation TBD



Under Secretary for Science Nominee Paul Dabbar

Paul Dabbar is Managing Director in the Global Mergers & Acquisitions Group, and Head of Energy Mergers & Acquisitions at J.P.Morgan, the investment banking division of JPMorgan Chase & Co. He has also led a number of M&A transactions for JPMorgan Chase. He has been financial advisor on over \$300 billion in M&A transactions, including corporate mergers, subsidiary sales and purchases, government privatizations, joint ventures, corporate restructurings, private equity transactions, and unsolicited corporate transactions for companies in the energy sector, including nuclear, as well as in the industrials and financial institutions sectors.

Mr. Dabbar is a member of the Board of the U.S. Department of Energy Environmental Management Advisory Board, and is chairman of his U.S. Naval Academy class fundraising board.

Prior to J.P.Morgan, Mr. Dabbar was a nuclear submarine officer, serving on board the U.S.S. Pintado (SSN-672) out of Mare Island, CA, and Pearl Harbor, HI, where he completed deployments to places including the North Pole and South America. He also worked at the Johns Hopkins Applied Physics Laboratory conducting U.S. Department of Defense research.

Mr. Dabbar has a B.S. with merit in marine engineering from the U.S. Naval Academy (Class of '89) and a M.B.A. from Columbia University. He also completed the U.S. Naval nuclear program's Engineer's School.





**FY 2018 PRESIDENT'S BUDGET
REQUEST**

Priorities for FY 2018

- **Focus on cutting edge, early stage research and development; achieve 40% funding for research**
 - The Office of Science (SC) is the largest Federal supporter of basic research in the physical sciences in the United States. SC supports research at the frontiers of science—discovering nature’s mysteries, from the study of subatomic particles, atoms, and molecules that are the building blocks of the materials of our everyday world, to the DNA, proteins, and cells that are the building blocks of entire biological systems.
 - SC also supports science for energy—advancing a clean energy agenda through fundamental research on energy production, conversion, storage, transmission, and use, and through advancing our understanding of the earth.
- **Continue operations of the national laboratories**
 - SC oversees the operation of ten DOE national laboratories. SC conducts a formal laboratory strategic planning process annually with its labs to understand future directions, immediate and long-range challenges, and resource needs. SC also conducts an annual evaluation of the scientific, technological, managerial, and operational performance of the management and operating contractors of its laboratories. In addition, SC funds mission-ready infrastructure and investments that foster safe and environmentally responsible operations at the labs.
- **Increase funding for Exascale Computing**
- **Maintain all on-going projects and start two new construction projects**
 - 2 New Construction Projects:
 - Advanced Photon Source Upgrade (APS-U) at Argonne National Laboratory (ANL) in Basic Energy Sciences and
 - Energy Sciences Capability at Pacific Northwest National Laboratory (PNNL) in Science Laboratories Infrastructure.





FY 2018 SC Budget Request

	FY 2017	FY 2018		
	Enacted Approp.	President's Request	House Mark	Senate Mark
ASCR.....	647,000	722,010	694,200	763,000
BES.....	1,871,500	1,554,500	1,871,500	1,980,300
BER.....	612,000	348,950	582,000	633,000
FES.....	380,000	309,940	395,000	232,000
HEP.....	825,000	672,700	825,000	860,000
NP.....	622,000	502,700	619,200	639,200
WDTS.....	19,500	14,000	19,500	19,500
SLI.....	130,000	76,200	105,600	143,000
S&S.....	103,000	103,000	103,000	103,000
PD.....	182,000	168,516	177,000	177,000
Subtotal, Science.....	5,392,000	4,472,516	5,392,000	5,550,000
Rescission of PY Bal.....	-1,028 ^a
Total, Science.....	5,390,972	4,472,516	5,392,000	5,550,000

^a Rescission of PY funds in the amount -\$239 for PY 2012 and older: -\$239 for FY 2013 and -\$550 for FY 2014 - FY 2016.



In Conclusion ...

- **In the immediate future:**
 - Keep producing great science!
 - Continue tradition of excellence in SC-supported research and operations of our scientific facilities

- **In the coming weeks and months:**
 - Congress is deliberating its appropriations decisions
 - We must be ready to execute when the new fiscal year starts on October 1, 2017

